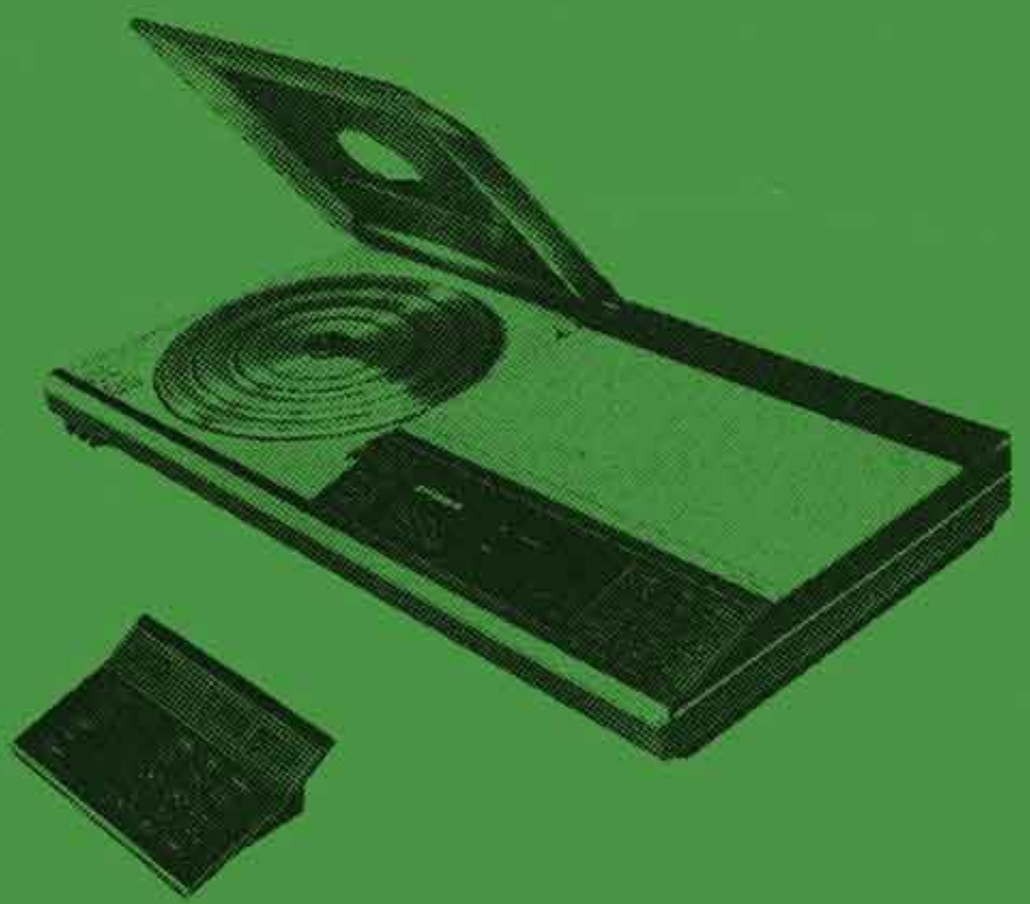
Bang & Olufsen

Diaphonie en entrée Micro avec la Radio - normal Bo

Volume bloqué à fond voir Diode Zener 5V1 circuit 43



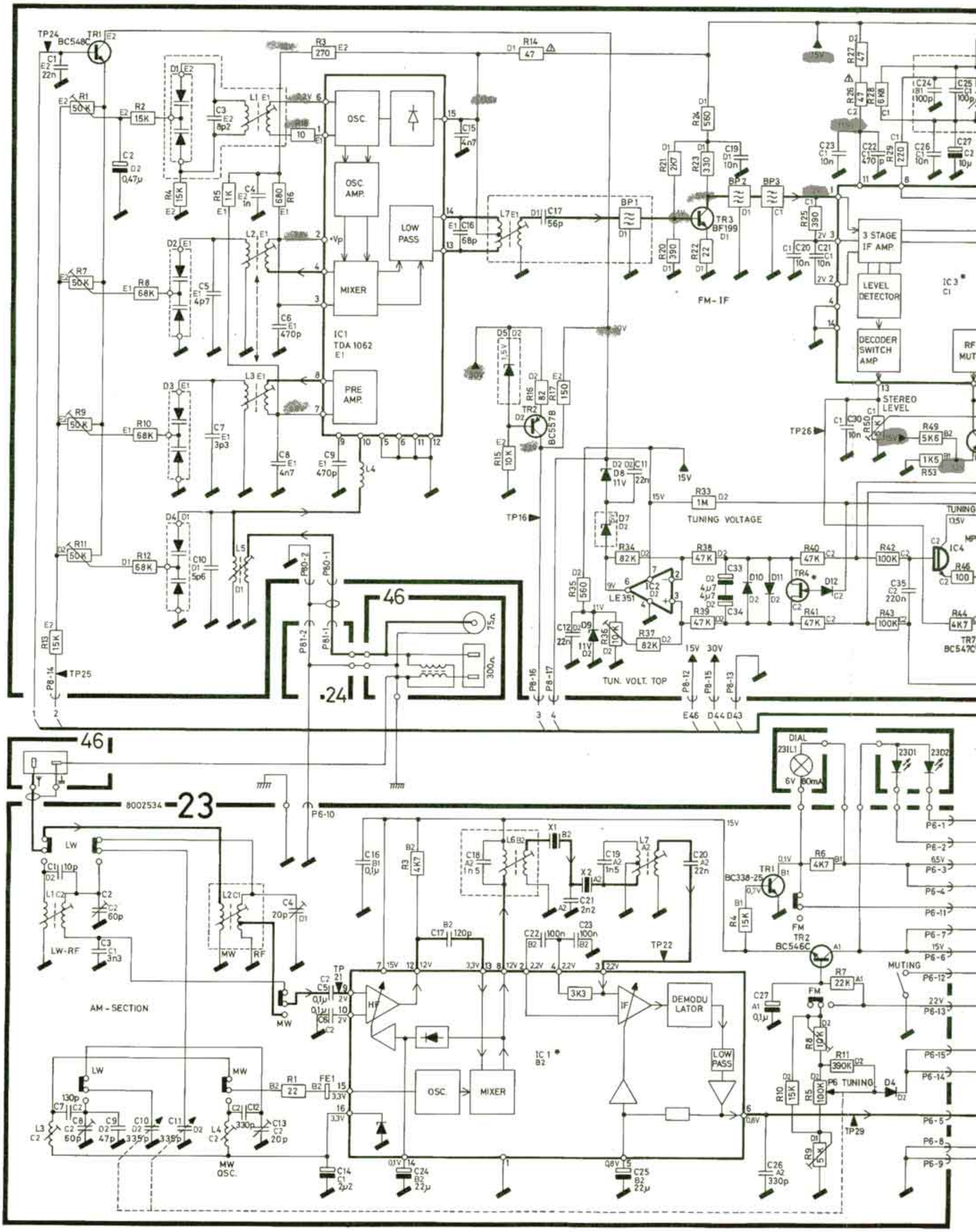
Beocenter 7700

Type 1811

MANUEL d'ENTRETIEN

1-7

DIAGRAM A


TP24
TR1 BC548C
C1 22n
R1 50K
R2 15K
C2 0,47µ
R3 270
R14 47
L1
C3 8p2
R18 10
OSC.
OSC. AMP.
LOW PASS
MIXER
PRE AMP.
IC1 TDA 1062
C15 4n7
C16 68p
C17 56p
BP1
L7
R4 15K
R5 1K
C4
R6 680
L2
C5 4p7
C6 470p
R7 50K
R8 68K
L3
C7 3p3
C8 4n7
C9 470p
R9 50K
R10 68K
L4
D4
L5
C10 5p6
R11 50K
R12 68K
R13 15K
TP25
P8-14
P80-2
P80-1
P81-2
P81-1
75Ω
300Ω
46
24
R24 560
R21 2K7
R23 330
C19 10n
BP2
BP3
TR3 BF199
R20 390
R22 22
FM-IF
R27 47
R26 47
R28 6K8
C24 100p
C25 100p
C23 10n
C22 470p
R29 220
C26 10n
C27 10µ
R25 390
C20 10n
C21 10n
3 STAGE IF AMP
LEVEL DETECTOR
DECODER SWITCH AMP
IC 3
STEREO LEVEL
C30 10n
R50 47K
R49 5K6
1K5
R53
TP26
D5 D2
1,5V
R16 82
R17 150
TR2 BC557B
R15 10K
D8 11V
C11 22n
R33 1M
TUNING VOLTAGE
D7
R34 82K
R38 47K
R40 47K
R42 100K
R43 100K
R44 4K7
IC4
R46 100
TR7 BC547C
C33 4µ7
C34 4µ7
C35 220n
R41 47K
R39 47K
R37 82K
R36 10K
C12 22n
D9 11V
R35 560
IC2 LE351
TR4
D10 D11 D12
TUN. VOLT. TOP
P8-12 P8-15 P8-13
E46 D44 D43
TP16
P8-16 P8-17
DIAL
Z31L1 6V 80mA
2301 2302
8002534
23
LW
MW
RF
LW-RF
C1 10p
C2 60p
C3 3n3
C4 20p
AM-SECTION
C5 0,1µ
C6 0,1µ
MW OSC.
C14 2µ2
C24 22µ
C25 22µ
C16 0,1µ
R3 4K7
C18 1n5
C19 1n5
C20 22n
C21 2n2
X1
X2
L6
C17 120p
C22 100n
C23 100n
TP22
3K3
HF
IF
DEMODU LATOR
LOW PASS
IC 1
R1 22
FE1
OSC.
MIXER
C26 330p
C27 0,1µ
R8 10K
R11 390K
R10 15K
R5 100K
P6 TUNING
D4
R9 5K
TP29
TR1 BC338-25
R6 4K7
R4 15K
FM
TR2 BC546C
R7 22K
MUTING
P6-1
P6-2
P6-3
P6-4
P6-11
P6-7
P6-6
P6-12
P6-13
P6-15
P6-14
P6-5
P6-8
P6-9
P6-10

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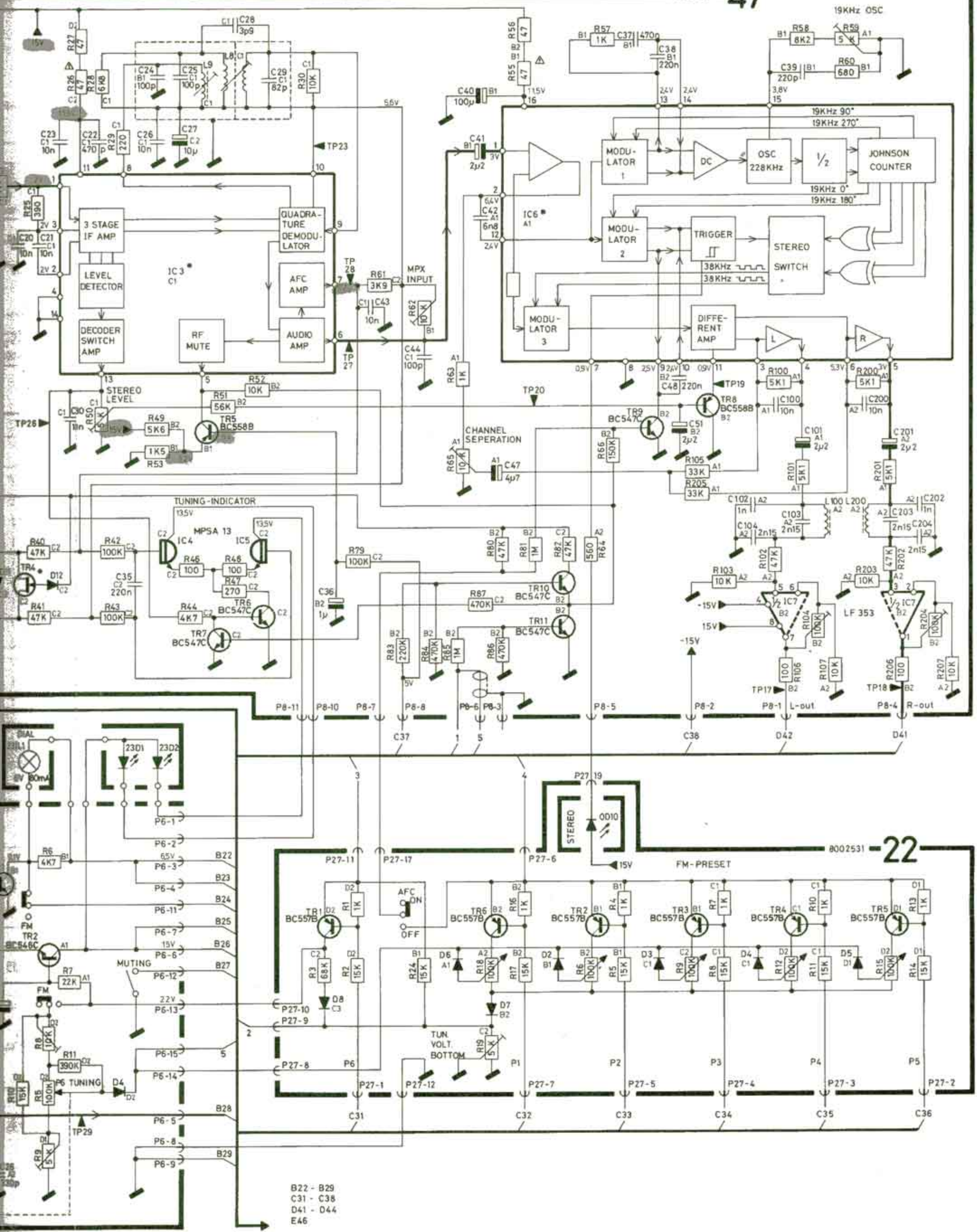
8002519 -47



B22 - B29
C31 - C38
D41 - D44
E46

Bang&Olufsen

DIAGRAM B

près s'allume vers C96 sur platine 42 en E1 (couvercle)

8002532 - 3

14V UNSTAB

110V
240V
130V
220V

13T1

6002373 13F1 1,6A-T
6002373 13F2 1,6A-T

110V~
20V~
110V~

P9-1 P9-2 4A-T F1 12V

D1 D2 D3 C1 C2 C3 100n

R1 1K RL1 6,5V

R8 270 IC1 BDX34A TP9

TR1 BC547B C4 5000µ

R11 470 R12 250 2,7V

R9 220 D6

6,5V SUPPLY

D12 R22 39K R23 6K8

R14 1K D5 R15 100K R16 1K R17 2K2

IC1 LM 741 R19 100K R20 2K7 -8V

D7 ON/OFF MUTING

R5 1K R2 390 R3 270 33V 4,6V D4 C7 15µ

R4 680 TR3 BC557B STAND BY 5V

TR2 BC337-25 0V C5 22n R6 10K

P11 19 C62 µC + REMOTE ST-BY SUPPLY

P11 5 C61

P11 7 C207 470n

P11 10 C60 6,5V

TR200 R200 R201 4K7

P11 17 C59 50/60Hz 5V

P11 16 E78

4,6V

C10 330n R25 10 C11 330n R26 10

C12 330n C13 330n C14 330n

D8 POWER AMP SUPPLY 30V

TR4 BD138 TR5 BC546B 30V SUPPLY

C15 47µ C16 100n C19 47µ D9 D10 D11

R27 2K2 R32 120K R28 10K R30 3K9 R29 10K

14V

C17 5000µ C18 5000µ 1A-T F2 R31 3K3 -30V

4 8002413

IC2 BDX33A TR1 BD435 20,5V

IC3 7815 15V SUPPLY

C1 22µ C3 330n R1 15

P11-1 C58 14,3V MOTOR

P11-9 6

TP0

P11-15 P11-14 P11-7 C53 C54

P65-6

P11-6 D68 C55

P11 18 P11 4

C56 E74 E75 E76 C57 E77 A26

P63 16 P63 12 P63 13 P63 15

25 LEFT

8002565 RIGHT

TP2

P23-1 P23-3 P23-2

C1 10µ R3 47K R4 47K C2 10µ REC. LEVEL

P23 7 P23-5 P23 6

P65 3 P65 5 P65 1

15V

C200 100n R200 10K R201 470K C203 100p

C201 100n R202 10K R203 470K C204 100p

C202 100n R204 10K R205 470K C205 100p

C100 100n R100 10K R101 470K C103 100p

C1 2n2 R1 330K R2 220K C3 220p

C101 100n R102 10K R103 470K C104 100p

C102 100n R104 10K R105 470K C105 100p

D67 E73 F83 D65 A28 E72 F82

P63-6 P63-7 P63-8 P63-9 P63-1 P63-10 P63-11

100µ C2 8,1V 8,4V 8,1V 8,4V 8,1V

FM AM TP PH FM AM TP PH

BIAS VOLTAGE +VB

R SWITCH CONTROL

TDA 1029 IC1 A1

C4 22n

INPUT SELECTOR R3 39K

R208 10K C209 100p R209 10K R210 100K C210 100p R108 10K C109 100p R109 10K R110 100K C110 100p

TDA 1527 IC2 TP2

R212 100 C211 10µ R211 100K R112 100 C111 10µ R111 100K

R113 100K C112 47p R213 100K C212 47p

C108 330n C208 330n R107 100K R207 100K

R15 10K

TP2 IN LEFT RIGHT

TP2 OUT LEFT RIGHT

R1 1K R2 1K R3 1K R4 1K R5 1K R6 1K

P62-8 P62-6 P62-10 P62-12 P62 1 P62 4 P62-3

LEFT RIGHT

5,1V

PH TP AM

P63-3 P63-4 P63-5 P64-4 P64-3 P64-1 P60-1 P60-2 P60-3

A29 D65 F81 C52 C51 A24 C50 A23 F80

6,5V

R217 180K C215 10µ R216 10K C115 10µ R116 10K R117 180K

DC CON VOL

15V MAX.VOLUME R7 10K R4 1K8 VOLUME REF R6 10K

R10 60K4 R13 60K4 R9 8K06 R12 8K06

TR1 BC 547B C5 2µ2 R11 3K3 R5 33K R8 1M

TP10 VOLUME MUTE

C49 C48 A22

46 8002515

μC + REMOTE ST-BY SUPPLY

50/60Hz 5V

14,3V MOTOR

RIGHT CHANNEL OUTPUT AMP

LEFT CHANNEL OUTPUT AMPLIFIER

3R100-3R135
3C100-3C113
3L100
3TR100-3TR112
3 IC 100-3IC 102
3 D 100-3 D 104

MUTING
IN
OUT
SECURITY CIRCUIT
HEADPHONES

FAULT SWITCH

TDA 1074A
TDA 1074
VOL 1R
VOL 1L
VOL 2R
VOL 2L
TREBLE R
TREBLE L
BASS R
BASS L
DC CONTROL
1/2 IC 3
1/2 IC 4
LOUDNESS

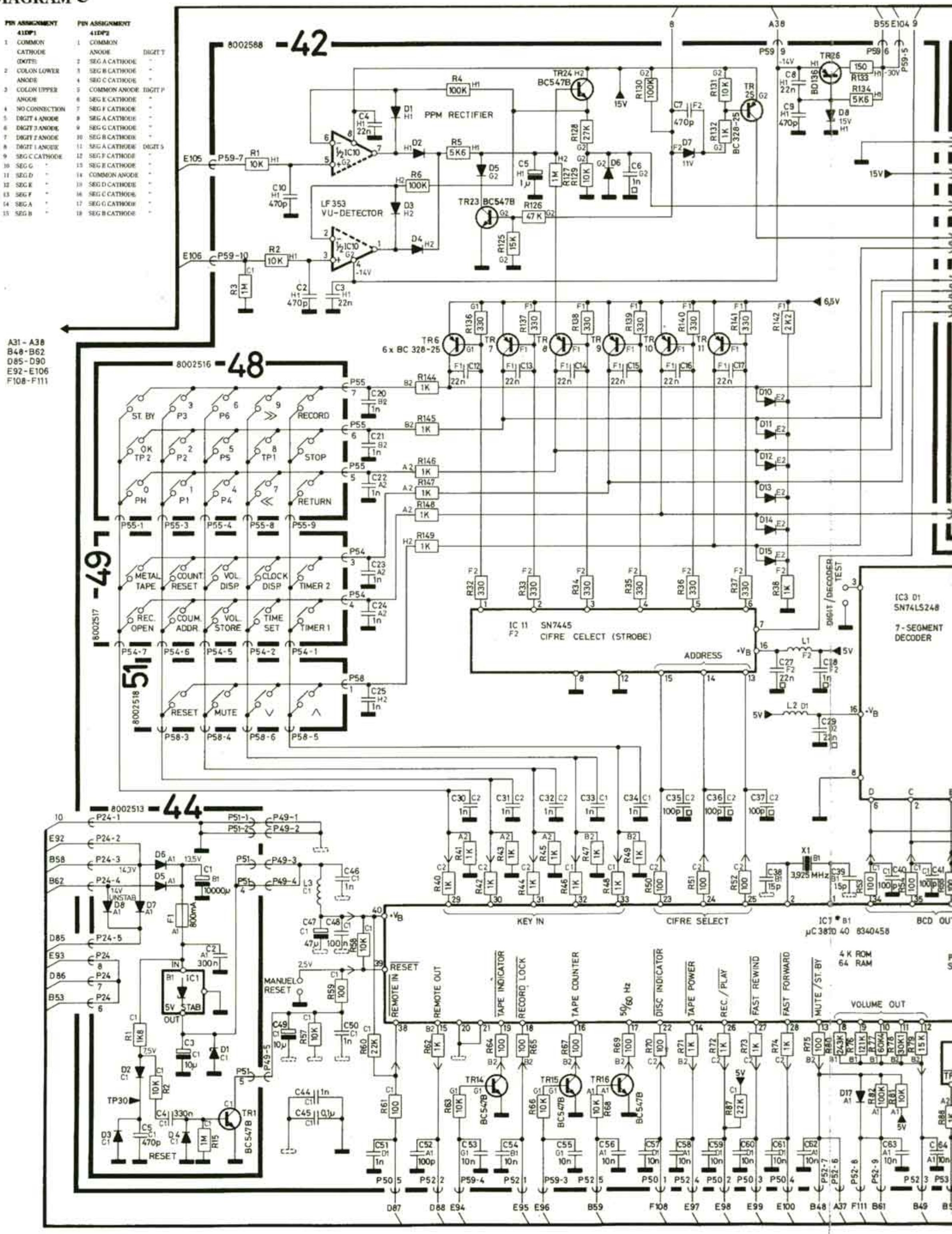
MAX. VOLUME
VOLUME REF
VOLUME
MUTE
MUTE AN
BALANCE
TREBLE
BASS

A22-A29
C48-C62
D65-D70
E72-E78
F81-F83

8002540
8002515
8002512
8002531

DIAGRAM C

PIN ASSIGNMENT 41DP1		PIN ASSIGNMENT 41DP2	
1	COMMON CATHODE (DOTS)	1	COMMON ANODE DIGIT 7
2	COLON LOWER ANODE	2	SEG A CATHODE "
3	COLON UPPER ANODE	3	SEG B CATHODE "
4	NO CONNECTION	4	SEG C CATHODE "
5	DIGIT 4 ANODE	5	COMMON ANODE DIGIT 6
6	DIGIT 3 ANODE	6	SEG E CATHODE "
7	DIGIT 2 ANODE	7	SEG F CATHODE "
8	DIGIT 1 ANODE	8	SEG A CATHODE "
9	SEG C CATHODE	9	SEG G CATHODE "
10	SEG G "	10	SEG B CATHODE "
11	SEG D "	11	SEG A CATHODE DIGIT 5
12	SEG E "	12	SEG F CATHODE "
13	SEG F "	13	SEG E CATHODE "
14	SEG A "	14	COMMON ANODE "
15	SEG B "	15	SEG D CATHODE "
		16	SEG C CATHODE "
		17	SEG G CATHODE "
		18	SEG B CATHODE "



□ Mechanically, capacitors with this symbol are designed as resistors

8002510 -41

B55 E104 9

P59 6

P59-5

150 R133 H1 -30V

R134 5K6 H1

D8 15V H1

C1 22n

P56-1

P57-1

15V

P57-2

P57-3

P56-8

P56-3

P56-4

P56-5

P56-6

P56-7

U267B PPMDRIVE1 IC1 C1 20mA

-3 dB 0 dB -3 dB -10 dB

PPM-DRIVE2 U257B IC2 C1 20mA

+1,5 dB -1,5 dB -6 dB -15 dB

R22 68 D2 PPM TR1 BC557B D2

R23 68 D2 TR2 BC557B

-10 -15 -3 -6 0 -1,5 -3 -1,5 DP3 D2

10-15 14-21 20-26 8-13 12-17 16-24

DP1 E1 DIGIT 1 2 3 4

DOTS ANODE COMMON CATHODES

R10 82 C1 R11 82 C1

DP2 A1 DIGIT 5

DP3 D2

TR3 TR4 E2 BC547B

R25 68 R24 68 +7V (RECORD)

R19 470 C2 R20 470 C2

R14 470 R15 470 R16 470 R17 470 R18 470 A2

PROGRAMMED MUTE REC OPEN READY FOR METAL RECORDING

P56 23 P56 22 P56 21 P56 19 P56 18 P56 20 P56 2

IC3 D1 SN74LS248 7-SEGMENT DECODER

IC4 2003 DISPLAY DRIVE

R100 82 D2 C83 1n D2

R101 82 E2 C84 1n E2

R102 82 E2 C85 1n E2

R103 82 D2 C86 1n D2

R104 82 D2 C87 1n D2

R105 82 E2 C88 1n D2

R106 82 D2 C89 1n D2

R107 6,8 D2 C90 1n

D18 D2 D19 D2

DIGIT TEST

IC5 D2 2003 LAMP DRIVER

LAMP TEST

6,5V

R110 10K E1 R111 1K E1

TR 18 E1 P50-8 E102

R112 5V 100K METAL E1 BC547B

C91 D1 10n

RECORD MUTE ENABLE

IC6 D2 SN74LS259 LATCH

DATA IN ADDRESS PH STOP

C101 F2 1n C92 F2 1n

R114 1K5 F1 R113 470 F1

L5 C93 D2 1n C94 D2 22n

15V P59-8 B57

P50-9 E103

R115 10K E1 R116 1K5 E1

5V(±0,25V) 6,5V P50 10 P50 11 B50 B60

TR19 E1 D20 4V7

R117 1K E1 R118 10K E1

C95 E1 10n TR20 BC547B R120 50 PTC

R119 330 C96 E1 220µ

P50-12 10 P50-13 B54

C97 D1 10n C98 D1 10n

P50-6 P50-7

BCD OUT

4 K ROM 64 RAM

PROGRAM SELECT

R83 100 C66 1n B2

R84 100 C67 1n B2

R85 100 C68 1n B2

R86 100 C69 1n B2

VOLUME OUT

243K R76 121K R77 60K4 R78 30K1 R79 15K

IC9 A2 SN7445 PROGRAM SELECT

TP1 TP2 P6 P5 P4 P3 P2 P1 PH

ST-BY

D17 A1 R82 100K A1 R81 10K A1 5V

R88 1K R89 1K R90 1K R91 1K R92 1K R93 1K R94 1K R95 1K R96 1K A2

C63 A1 10n C64 C70 C71 C72 C73 C74 C75 C76 C77 C78 10n

P52 3 P53 1 P53 2 P53 3 P53 4 P53 10 P53 9 P53 8 P53 7 P53 6 P53-5

P52-6 P52-8 P52-9

A37 F111 B61 B49 B51 B56 A31 A36 A35 A34 A33 A32 B52 F109

C39 15p R53 C40 100p R54 C41 100p R55 C42 100p R56 C43 100p

IC8 MPSA 13 C2

L4 A2 C79 22n C80 A2 1n R97 47K C2 C81 10n R98 1K C2

D21 12V G2 D22 G2 D23 G2 C99 G1 470p

F1 TR21 BC557B R122 18 G1

D24 G2 R121 560 G2 C100 G1 10n

PH LIGHT CONTACT

P59-1 P59-2 D89 D90 F110 E101

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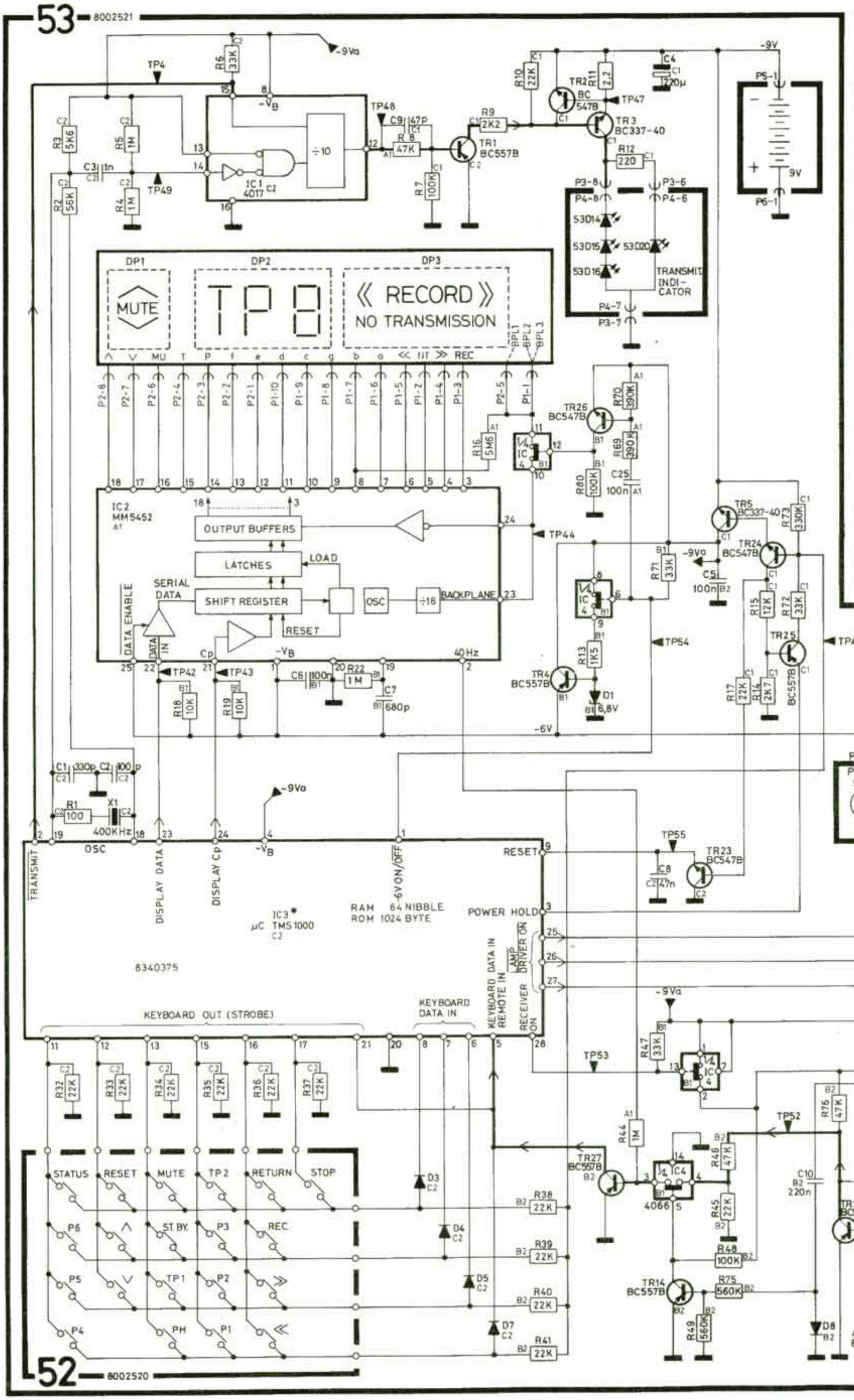
DIAGRAM D



45 8002514

IC2 TDA4050 B1
COMPA RATOR
A.G.C.
IC1 MPSA 65 A1
IC3 LM555 A2
R-C
TRIG ONE SHOOT 1mS OUT
IC4 4017 B2
÷10
TR1 BC547B
TR2 BC557B
TR3 BC338-25
TR4 BC547B
TR5 BC547B
TR6 BC338-25
TR7 BC547B
TR8 BC557B
TR9 BC547B
TR10 BC547B
TP31 TP32 TP33 TP34 TP35 TP36 TP37 TP38 TP39 TP40
INT REMOTE OFF ON
EXT REMOTE CODE
REMOTE IN
P70 P72 P73 P71 P26
C86 C87 C88 C85 C90 C89 B70 B69 B68 A44 B67 B66 A42 A43 B65 A41
F113

N.B. Module 53 has a negative supply voltage.

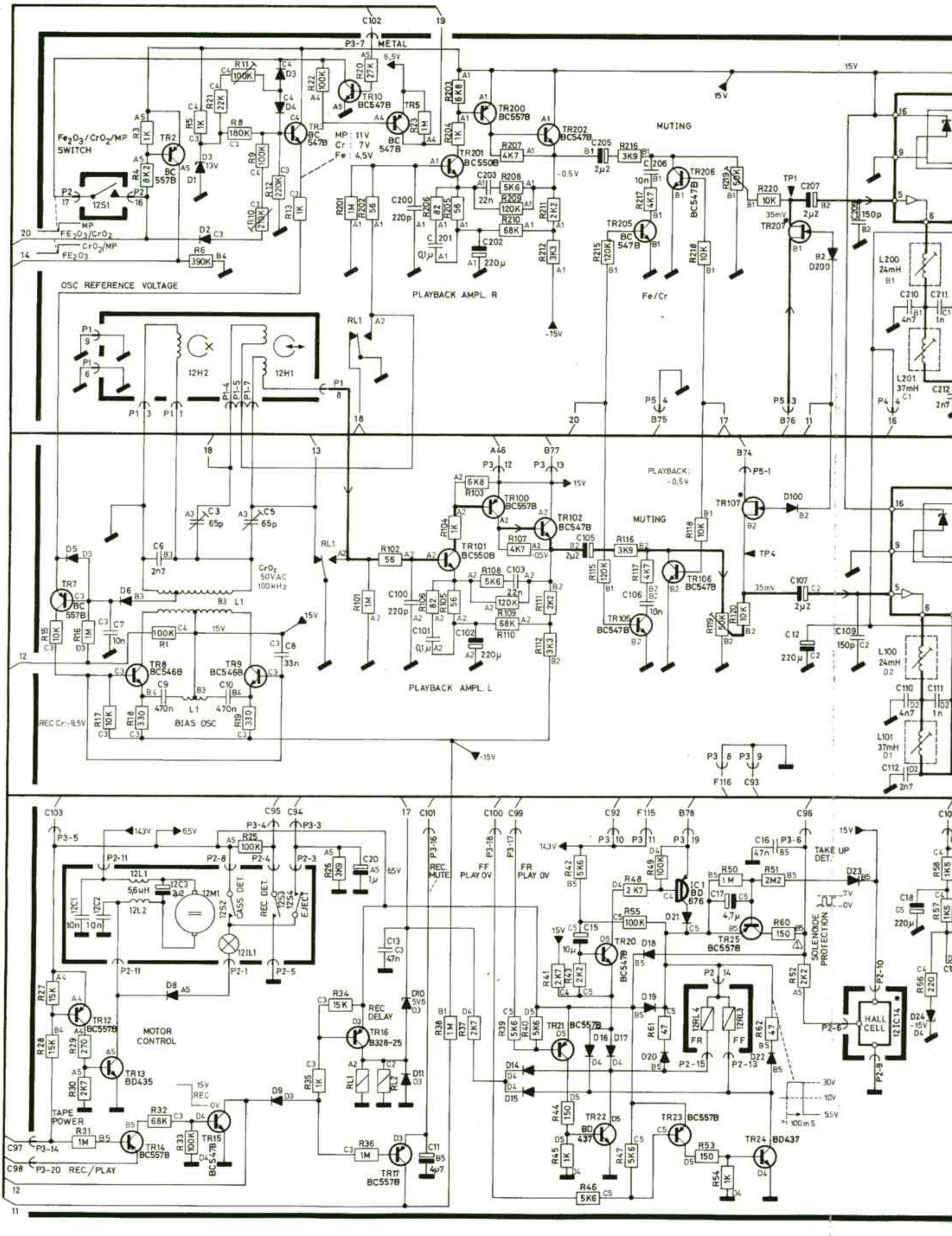
44 8002513

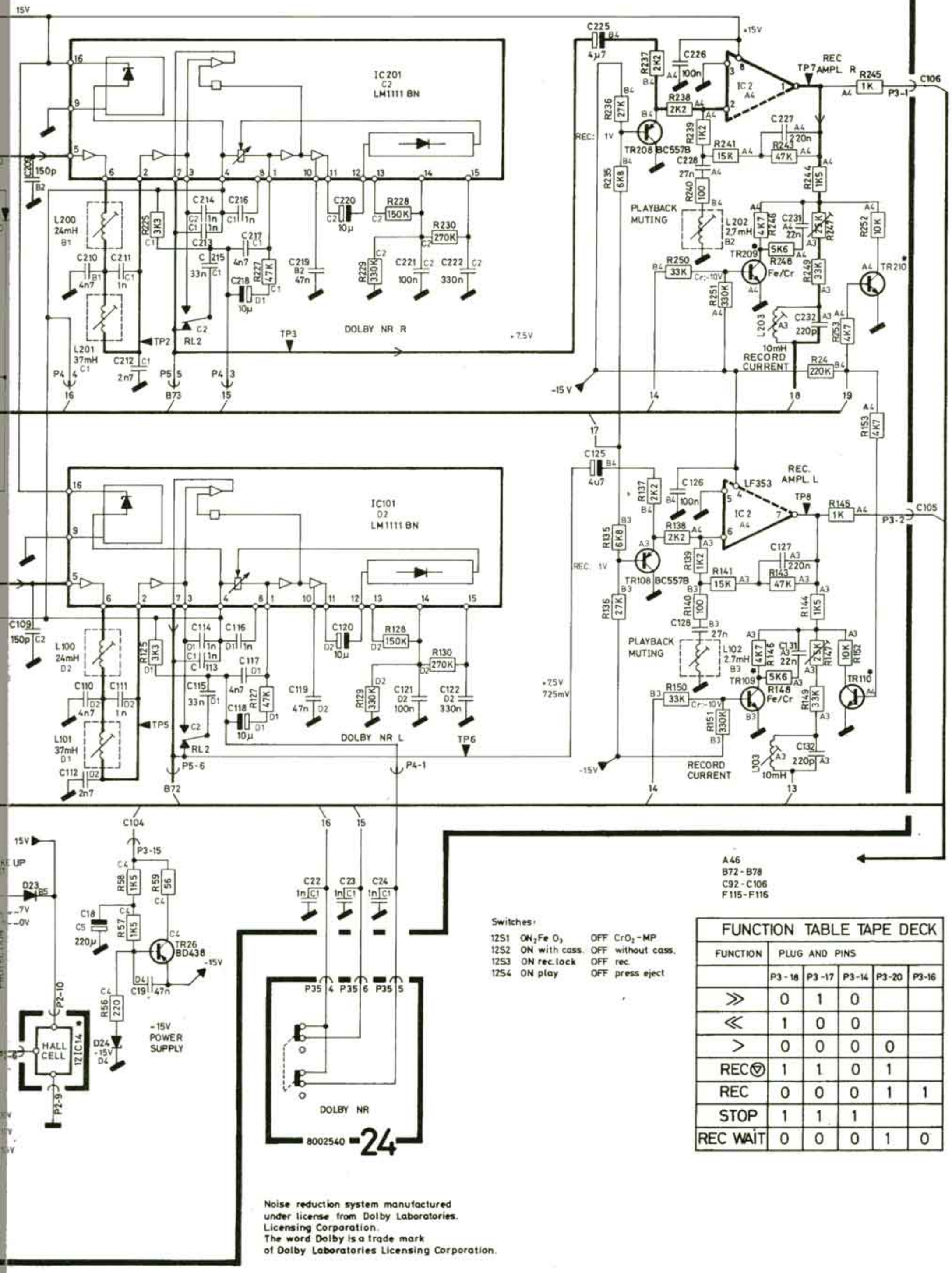
MIC AMPL.

TR6 BC547B
TR7 BC557B
TR10 BC557B
TR17 BC550C
TR18 BC558C
TR19 BC550C
TR16 BC550C
TP45 TP50 TP51 TP56
D10 D11 D12 D13 D21
L1 55mH

A41 - A44
B65 - B70
C85 - C90
F113

DIAGRAM E


C102
19
P3-7
METAL
15V
MUTING
$Fe_2O_3/CrO_2/MP$ SWITCH
MP : 11V
Cr : 7V
Fe : 4,5V
TR10 BC547B
TR5 BC 547B
TR3 BC 547B
TR2 BC 557B
TR200 BC557B
TR202 BC547B
TR201 BC550B
TR206 BC547B
TR205 BC 547B
TR207
D1 13V
D2
D3
D4
12S1
MP FE_2O_3/CrO_2
CrO_2/MP
FE_2O_3
OSC REFERENCE VOLTAGE
PLAYBACK AMPL. R
PLAYBACK AMPL. L
Fe/Cr
-15V
-0.5V
12H2
12H1
RL1
TR7 BC 557B
TR8 BC546B
TR9 BC546B
BIAS OSC
MOTOR CONTROL
TR12 BC557B
TR13 BD435
TR14 BC557B
TR15 BC547B
TR16 B328-25
TR17 BC557B
TR100 BC557B
TR102 BC547B
TR101 BC550B
TR106 BC547B
TR105 BC547B
TR107
TR20 BC547B
TR21 BC557B
TR22 BD 437
TR23 BC557B
TR24 BD437
TR25 BC557B
IC1 BD 676
PLAYBACK: -0,5V
MUTING
TAKE UP DET.
SOLENOIDE PROTECTION
REC. MUTE
FF PLAY 0V
FR PLAY 0V
REC DELAY
TAPE POWER
REC./PLAY
HALL CELL
12IC14
12RL4 FR
12RL3 FF
12M1
12IL1
12L1 5,6uH
12L2
12S2 CASS DET.
12S3 REC. DET.
12S4 EJECT
CrO_2 50VAC 100kHz
L200 24mH
L201 37mH
L100 24mH
L101 37mH
D100
D200
TP1
TP4
35mV
100 mS
30V
10V
5,5V
6,5V
14,3V
F116
C93



A46
B72 - B78
C92 - C106
F115 - F116

Switches:

12S1	$ON_2Fe\ O_3$	OFF	CrO_2 - MP
12S2	ON with cass.	OFF	without cass.
12S3	ON rec. lock	OFF	rec.
12S4	ON play	OFF	press eject

FUNCTION TABLE TAPE DECK					
FUNCTION	PLUG AND PINS				
	P3 - 18	P3 - 17	P3 - 14	P3 - 20	P3 - 16
≫	0	1	0		
≪	1	0	0		
>	0	0	0	0	
REC⏚	1	1	0	1	
REC	0	0	0	1	1
STOP	1	1	1		
REC WAIT	0	0	0	1	0

Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
The word Dolby is a trade mark of Dolby Laboratories Licensing Corporation.

Bang&Olufsen

DIAGRAM F